

H3C LSWM124XGT2Q interface card user manual-6PW105

About the LSWM124XGT2Q interface card

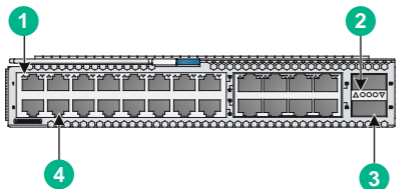
Important information

The LSWM124XGT2Q interface card is applicable to multiple H3C switch models. For the interface card compatibility with switches, contact H3C Support or marketing staff.

Front panel

The LSWM124XGT2Q interface card provides 24 10GBASE-T ports and two QSFP+ ports.

Figure 1 LSWM124XGT2Q interface card front panel



(1) 10GBASE-T port LED

(2) QSFP+ port LED

(3) QSFP+ port

(4) 10GBASE-T port

Ports

Important information

- As a best practice, use H3C transceiver modules and cables for the interface cards.
- The transceiver module and cable types supported by the LSWM124XGT2Q interface card vary by device model. For more information, see the installation guide or hardware reference for the device, or contact H3C Support or marketing staff.
- The restrictions and guidelines for using the LSWM124XGT2Q interface card vary by device model. For more information, see the installation guide or hardware reference for the device.

- For more information about H3C transceiver modules and cables, see *H3C Transceiver Modules User Guide* at www.h3c.com.

10GBase-T ports

Table 1 10GBase-T port specifications

Item	Specification
Connector type	RJ-45
Port standard	1/10 Gbps full duplex, MDI/MDI-X auto-sensing
Transmission medium and max transmission distance	<ul style="list-style-type: none"> Category-6 unshielded twisted pair cable: 55 m (180.45 ft) Category-6 shielded twisted pair cable: 100 m (328.08 ft) Category-6A or above twisted pair cable: 100 m (328.08 ft)
Compliance standard	<ul style="list-style-type: none"> IEEE 802.3an IEEE 802.3ab

QSFP+ ports

You can install the following transceiver modules and cables in the QSFP+ ports on an LSWM124XGT2Q interface card:

- QSFP+ transceiver modules in [Table 2](#) and [Table 3](#).
- QSFP+ DAC cables in [Table 4](#).
- QSFP+ to SFP+ DAC cables in [Table 5](#).
- QSFP+ fiber cables in [Table 6](#).

Table 2 QSFP+ transceiver modules available for the QSFP+ ports (1)

QSFP+ transceiver module	Central wavelength (nm)	Connector
QSFP-40G-SR4-MM850	850	MPO
QSFP-40G-CSR4-MM850	850	MPO

QSFP+ transceiver module	Central wavelength (nm)	Connector
QSFP-40G-LR4-WDM1300	Four lanes: <ul style="list-style-type: none"> • 1271 • 1291 • 1311 • 1331 	LC
QSFP-40G-LR4L-WDM1300	Four lanes: <ul style="list-style-type: none"> • 1271 • 1291 • 1311 • 1331 	LC

Table 3 QSFP+ transceiver modules available for the QSFP+ ports (2)

QSFP+ transceiver module	Cable/fiber diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
QSFP-40G-SR 4-MM850	Multi-mode, 50/125	2000	100 m (328.08 ft)
		4700	150 m (492.12 ft)
QSFP-40G-CS R4-MM850	Multi-mode, 50/125	2000	300 m (984.25 ft)
		4700	400 m (1312.33 ft)
QSFP-40G-LR 4-WDM1300	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-40G-LR 4L-WDM1300	Single-mode, 9/125	N/A	2 km (1.24 miles)

Table 4 QSFP+ DAC cables available for the QSFP+ ports

QSFP+ DAC cable	Cable length	Data rate
LSWM1QSTK0	1 m (3.28 ft)	40 Gbps
LSWM1QSTK1	3 m (9.84 ft)	
LSWM1QSTK2	5 m (16.40 ft)	

Table 5 QSFP+ to SFP+ DAC cables available for the QSFP+ ports

QSFP+ to SFP+ DAC cable	Cable length	Data rate
LSWM1QSTK3	1 m (3.28 ft)	40 Gbps
LSWM1QSTK4	3 m (9.84 ft)	
LSWM1QSTK5	5 m (16.40 ft)	

Table 6 QSFP+ fiber cables available for the QSFP+ ports

QSFP+ fiber cable	Cable length	Data rate
QSFP-40G-D-AOC-7M	7 m (22.97 ft)	40 Gbps
QSFP-40G-D-AOC-10M	10 m (32.81 ft)	
QSFP-40G-D-AOC-20M	20 m (65.62 ft)	

LEDs

Important information

The indications of the LEDs on the LSWM124XGT2Q interface card vary by device model. For more information, see the installation guide or hardware reference for the device.

10GBASE-T port LEDs

Table 7 10GBase-T port LED description

LED status	Description
Steady green	The port is operating at 10 Gbps, and a link is present on the port.
Flashing green	The port is sending or receiving data at 10 Gbps.
Steady yellow	The port is operating at 1 Gbps, and a link is present on the port.
Flashing yellow	The port is sending or receiving data at 1 Gbps.
Off	No link is present on the port.

QSFP+ port LEDs

Table 8 QSFP+ port LED description

LED status	Description
Steady green	A transceiver module is installed in the port. The port is operating at 40 Gbps, and a link is present on the port.
Flashing green	The port is sending or receiving data at 40 Gbps.
Steady yellow	A transceiver module is installed in the port. The port is operating at 10 Gbps, and a link is present on the port.
Flashing yellow	The port is sending or receiving data at 10 Gbps.
Off	No transceiver module is installed in the port, or no link is present on the port.

Installing and removing an interface card

CAUTION:

- Before you install or remove an interface card, wear an ESD wrist strap and make sure the strap makes good skin contact and is reliably grounded.
- To avoid device damage, do not use excessive force when you install or remove an interface card.
- The LSWM124XGT2Q interface card is hot swappable. However, do not install or remove it during the startup of the switch.

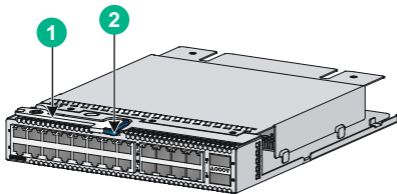
Installing an interface card

Before you install an interface card, remove the filler panel (if any) from the target slot. Keep the removed filler panel secure for future use.

To install an interface card:

1. Unpack the interface card.

Figure 2 LSWM124XGT2Q interface card

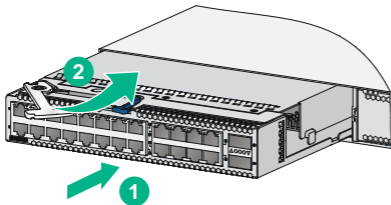


(1) Ejector lever

(2) Latch

2. Press the latch on the interface card to release the ejector lever.
3. As shown by callout 1 in [Figure 3](#), insert the interface card slowly into the slot along the guide rails.
4. Rotate inward the ejector lever as shown by callout 2 in [Figure 3](#) until the latch locks the ejector lever in place.

Figure 3 Installing an LSWM124XGT2Q interface card



Removing an interface card

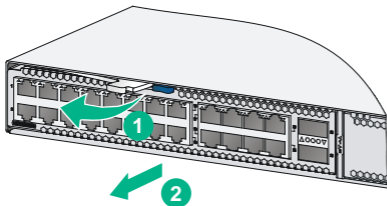
△ CAUTION:

- Before you remove an interface card, remove the cable from it to avoid cable damage.
- After removing an interface card, if no new interface card is to be installed, install the filler panel as soon as possible to prevent dust and ensure good ventilation in the device.

To remove an interface card:

1. Prepare an anti-static bag.
2. Press the latch to release the ejector lever
3. Rotate outward the ejector lever as shown by callout 1 in [Figure 4](#).
4. Pull out the interface card slowly out of the interface card slot, as shown by callout 2 in [Figure 4](#).
5. Place the removed interface card in the anti-static bag.

Figure 4 Removing an LSWM124XGT2Q interface card



Installing and removing QSFP+ transceiver modules and cables

For information about installing and removing QSFP+ transceiver modules and cables, see *H3C Transceiver Modules and Network Cables Installation Guide* at www.h3c.com.

Verifying the installation

After the installation is complete, identify whether the interface card is operating correctly.

If the interface card fails to operate correctly, perform the following steps:

1. Reinstall it following the installation procedures described in this document.
2. If the problem persists, contact H3C Support.

Technical support

New H3C Technologies Co., Ltd. provides customers with comprehensive technical support and service. If you purchase the products from the sales agent of New H3C Technologies Co., Ltd., please contact our sales agent or technical personnel.

Website: <http://www.h3c.com>

BOM: 3101A0HJ